

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

**TRANSLATION**

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**PCT-59**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2004/004723**

International filing date (day/month/year)

**31.03.2004**

Priority date (day/month/year)

**22.07.2003**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**MATSUSHITA ELECTRIC WORKS, LTD.**

1. This opinion contains indications relating to the following items:

- |                                     |              |  |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the opinion   |
| <input type="checkbox"/>            | Box No. II   | Priority   |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input checked="" type="checkbox"/> | Box No. VI   | Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application   |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application  |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2004/004723

**Box No. I      Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
  
☐ This opinion has been established on the basis of a translation from the original language into the following language  
\_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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International application No.

PCT/JP2004/004723

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
<b>1. Statement</b>			
Novelty (N)	Claims	5-7	YES
	Claims	1-4, 8-12	NO
Inventive step (IS)	Claims	5	YES
	Claims	1-4, 6-12	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO
<b>2. Citations and explanations:</b>			
<p>Document 1: JP 2001-102758 A (Hitachi Chemical Co., Ltd.) 13 April 2001  Document 2: JP 9-136943 A (Dainippon Ink and Chemicals, Inc.) 27 May 1997  Document 3: JP 2003-20327 A (Sumitomo Bakelite Co., Ltd.) 24 January 2003</p> <p><b>Claims 1-4 and 8-12</b></p> <p>Document 1 which is cited in the ISR discloses an invention wherein a printed wiring board epoxy resin composition which compounds a phenolic novolak resin, a curing accelerator and a specific silica filler in an epoxy resin for use as a printed wiring board so that the scope of the claims is the invention described in document 1 and does not appear to possess novelty.</p> <p><b>Claims 6-7</b></p> <p>Based on the fact that documents 2 and 3 which are cited in the ISR disclose that an epoxy resin which is obtained by reacting a bifunctional phenol and a bisphenol A-type epoxy resin and an epoxy resin having a dicyclopentadiene structure are used for an epoxy resin composition which is used for a printed wiring board, this technique is used for the resin composition described in document 1 and the inventions of claims 6-7 could have been easily conceived of by a person skilled in the art.</p> <p><b>Claim 5</b></p> <p>The documents cited in the ISR do not disclose that a silica filler is melted at a temperature of 1800 C or higher in the invention which uses an epoxy resin composition for printed wiring board which compounds a phenolic novolak resin, a curing accelerator and a specific silica filler with the epoxy resin for a printed wiring board nor do they describe using a silica filler which has been vitrified. In addition, it would not be easy for a person skilled in the art to deduce this configuration based on the description of the documents; thus claim 5 appears to possess novelty and involve an inventive step.</p>			

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International application No.

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Box No. VI

Certain documents cited

1. Certain published documents (Rule 43bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
<b>JP 2004-149577 A</b>	<b>27.05.2004</b>	<b>28.10.2002</b>	
<b>[EX]</b>			

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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